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NOTICE OF ALLOWANCE AND FEE(S) DUE

24028 7590 12/16/2010 Husch Blackwell Sanders LL.P Husch Blackwell Sanders LL.P Welsh & Katz 120 S RIVERSIDE PLAZA 22ND FLOOR CHICAGO. II. 60606

EXAMINER CAO, PHAT X			
			ART UNIT PAPER NUMBER
2814	•		

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/582,718	06/12/2006	Daisuke Kumaki	0553-0505	6557
TITLE OF INVENTION: I.	IGHT EMITTING DEVICE			

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/16/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	of transmitting the 1336 ig the Patent, advance of herwise in Block 1, by (a	rders and notification of a a) specifying a new corre	maintenance fees wi spondence address;	ill be and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
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CHICAGO, IL 6	50606						(Depositor's name)
			<u> </u>				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	:	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/582,718	06/12/2006		Daisuke Kumaki	•		0553-0505	6557
TITLE OF INVENTION	: LIGHT EMITTING DI	EVICE					
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	03/16/2011
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	1			
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	ondence address (or Cha B/122) attached.	nge of Correspondence	(I) the names of up to or agents OR, alternati	 3 registered patent vely, 	attorr	eys I	
			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
☐ Tee Address' indication (or Tee Address' Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 2 registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is 3 3			e is 3				
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or ty	pe)			
PLEASE NOTE: Uni	less an assignee is ident h in 37 CFR 3 II. Comr	ified below, no assignee	data will appear on the p	atent. If an assigne	e is id	entified below, the do	ocument has been filed for
(A) NAME OF ASSI		and of this form is a co	(B) RESIDENCE: (CITY				
				le au a Dia			По
Please check the appropr	rate assignee category or	categories (will not be pr	rinted on the patent):	Individual Co	rporati	on or other private gro	up entity Government
4a. The following fee(s)	are submitted:	41	b. Payment of Fee(s): (Plea	ase first reapply an	y prev	iously paid issue fee	shown above)
☐ Issue Fee ☐ Publication Fee (N	vo small entity discount p	nermitted)	A check is enclosed. Payment by credit car	rd Form PTO-2038	is atta	ched	
Advance Order -			The Director is hereby	y authorized to charg	e the	equired fee(s), any de	ficiency, or credit any a extra copy of this form).
5. Change in Entity Sta	A (Co status I . diants	d drawn)	overpayment, to Depo	osit Account Number	_	(enclose as	extra copy of this form).
	is SMALL ENTITY state		☐ b. Applicant is no lon	ger claiming SMAL	LEN	TTY status. Sec 37 CF	R 1.27(g)(2).
NOTE: The Issue Fee an	d Publication Fee (if req	uired) will not be accepte tes Patent and Trademark					e assignee or other party in
Authorized Signature				Date			
Typed or printed nam				Registration No			
This collection of inform an application. Confiden submitting the completes this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC it3-1450.	FR 1.311. The informatis U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR	on is required to obtain or 1.14. This collection is es depending upon the indi- e Chief Information Offic COMPLETED FORMS T	retain a benefit by th timated to take 12 m vidual case. Any cor er, U.S. Patent and 7 O THIS ADDRESS.	e publ inutes nment fraden SENI	ic which is to file (and to complete, includin s on the amount of tir nark Office, U.S. Depa D TO: Commissioner I	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



CHICAGO, IL 60606

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/582,718	06/12/2006	Daisuke Kumaki	0553-0505 6557		
24628 75	90 12/16/2010		EXAM	UNER	
Husch Blackwell	Sanders, LLP		CAO, P	HAT X	
	anders LLP Welsh & I	Katz	ART UNIT	PAPER NUMBER	
120 S RIVERSIDE 22ND FLOOR	120 S RIVERSIDE PLAZA 22ND FLOOR		2814 DATE MAIL ED: 12/16/2010		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 350 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 350 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/582,718	KUMAKI ET AL.	
Examiner	Art Unit	
Phat X Cao	2814	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTQL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFB 1.313 and MPEP 1308.

- This communication is responsive to 12/2/10.
- The allowed claim(s) is/are 1,2,6,7,12,13 and 15.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) 🖾 All b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No.
 - 3. X Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4.

 A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date
 - (b) I including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date 12/2/10
- 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413). Paper No./Mail Date
- 7. T Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance

/Phat X. Cao/

Primary Examiner, Art Unit 2814

9. ☐ Other

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Art Unit: 2814

REASONS FOR ALLOWANCE

 The following is an examiner's statement of reasons for allowance: the prior art of record neither anticipates nor renders obvious all of the limitations recited in the base claims. Specifically, a light emitting device comprising:

- a laminated body including a layer containing a light emitting substance over and in direct contact with the first electrode, a layer having an acceptor level over and in direct contact with the laminated body, a layer having a donor level over and in direct contact with the layer having the acceptor level, and a second electrode over and in direct contact with the layer having the donor level, wherein the layer having the acceptor level comprises both a material with a hole transporting property and a material with an electron accepting property, and the layer having the donor level comprises both a material with an electron transporting property and a material with an electron donating property (claim 1).
- a laminated body including a layer containing a light emitting substance over and in direct contact with the first electrode, a first layer containing a first substance of which a hole mobility is higher than an electron mobility and a second substance that can accept an electron from the first substance over and in direct contact with the laminated body, a second layer containing a third substance of which an electron mobility is higher than a hole mobility and a forth substance that can donate an electron to the third substance

Application/Control Number: 10/582,718

Art Unit: 2814

over and in direct contact with the first layer, and a second electrode in direct contact with the second layer (claim 6).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phat X. Cao whose telephone number is (571)272-1703.
 The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571)272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Art Unit: 2814

/P. X. C./ Primary Examiner, Art Unit 2814 /Phat X. Cao/ Primary Examiner, Art Unit 2814